

Innovative Current Sensor Design, Easily Get Into Tight Spaces

AC/DC CLAMP METER CM4375-50



CE
CAT IV 600 V
CAT III 1000 V
When using P2000:
CAT IV 1000 V
CAT III 2000 V

3 Year
Warranty

True RMS

Bluetooth

When Z3210 is installed



- Easily get into tight spaces between cables thanks to thin sensor structure
- Automatic AC/DC function helps boost work efficiency, Measure up to 1000 A
- Measure DC voltages of up to 2000 V^(*) for open voltage inspections of solar panels
- Simultaneously measure inrush current in RMS and crest values
- Easily transfer measurement data to your smartphone or tablet by using our free app GENNECT Cross or to an Excel® file.^(**)
- Harmonic analysis from 1st to 30th order with GENNECT Cross^(**)

^{*} When using the optional DC High Voltage Probe P2000. The clamp meter itself is capable of measuring up to 1000 V DC.

^{**} Wireless Adapter Z3210 is necessary.

Model No. (Order Code) **CM4375-50** (Wireless Adapter Z3210 not included)
CM4375-90 (Bundled with the Wireless Adapter Z3210)
CM4375-91 (Bundled with the DC High Voltage Probe P2000)
CM4375-92 (Bundled with DC HIGH VOLTAGE PROBE P2000 and Wireless Adapter Z3210)

Shared options for CM4141-50, CM4371-50, CM4373-50 and CM4375-50

Basic specifications (Accuracy guaranteed for 1 year)

DC Current range	1000 A, (Max. display 999.9 A), Basic accuracy: ±1.3% rdg. ±0.3 A (at 30.1 A - 999.9 A)
AC Current range	1000 A (Max. display 999.9 A, 10 Hz to 1 kHz, True RMS), Basic accuracy 45-66 Hz: ±1.8% rdg. ±0.3 A (at 30.1 A - 900.0 A)
Crest factor	1000 A range: 1.5
DC+AC Current range	1000 A (DC, 10 Hz to 1 kHz, True RMS), Basic accuracy DC, 45-66 Hz: ±1.3% rdg. ±1.3 A (at 30.1 A - 900.0 A)
DC Power range	0.000 kVA to 1000 kVA (When using P2000: 0 kVA to 2000 kVA) (Automatically switched based on voltage range), Basic accuracy: ±2.0% rdg. ±20 dgt.
DC Voltage range	600.0 mV to 1000 V (When using P2000: 600.0 V to 2000 V)
AC Voltage range	6.000 V to 1000 V, 4 ranges (15 Hz to 1 kHz, True RMS), Basic accuracy 45 - 66 Hz: ±0.9% rdg. ±0.003 V (at 6 V)
DC+AC Voltage range	6.000 V to 1000 V, 4 ranges, Basic accuracy DC, 45-66 Hz: ±1.0% rdg. ±0.013 V (at 6 V)
Resistance range	600.0 Ω to 6.000 MΩ, 5 ranges, Basic accuracy: ±0.7% rdg. ±0.5 Ω (at 600 Ω)
Capacitance range	1.000 μF to 1000 μF, 4 ranges, Basic accuracy: ±1.9% rdg. ±0.005 μF (at 1 μF)
Frequency range	9.999 Hz to 999.9 Hz, 3 ranges, Basic accuracy: ±0.1% rdg. ±0.003 Hz (at 9.999 Hz)
Temperature (K)	-40.0 to 400.0 °C, add temperature probe accuracy to basic accuracy of ±0.5% rdg. ±3.0 °C
Other functions	Continuity check, Diode check, Automatic AC/DC detection, DC current and DC voltage polarity detection function, MAX/MIN/AVG/PEAK MAX/PEAK MIN value display, Low-pass filter function, Display value hold, Auto hold, Backlight, Auto power save, Buzzer sound, Zero-adjustment
Dustproof, waterproof	IP20 (Voltage measurement in a completely dry condition. When jaw closes) IP54 (While in storage)
Power supply	LR03 Alkaline battery ×2 Continuous use: approx. 40 hr (without Z3210 installed), approx. 20 hr. (with Z3210 installed and using wireless communications) Other conditions: 100 A AC measurement, backlight off, 23°C reference value
Core jaw diameter	φ34 mm (1.34 in)
Smallest dimension of jaw cross-section	9.5 mm (0.37 in) (Range value of 44 mm (1.73 in) from the tip of the jaw)
Dimensions and mass	65 mm (2.56 in) W × 242 mm (9.53 in) H × 35 mm (1.38 in) D mm, 350 g (12.3 oz)
Included accessories	Test Lead L9300, Carrying Case C0203, LR03 Alkaline battery ×2, Instruction Manual ×2, Operating Precautions ×1

True RMS 2000 A AC/DC Clamp Meter for the Toughest Situations With DMM Functions that Deliver Top Safety

AC/DC CLAMP METER CM4373-50



CE
CAT IV 600 V
CAT III 1000 V
When using P2000:
CAT IV 1000 V
CAT III 2000 V

3 Year
Warranty

True RMS

Bluetooth

When Z3210 is installed



- Automatic AC/DC function helps boost work efficiency
- Measure DC voltages of up to 2000 V^(*) for open voltage inspections of solar panels
- Simultaneously measure inrush current in RMS and crest values
- Easily transfer measurement data to your smartphone or tablet by using our free app GENNECT Cross or to an Excel® file.^(**)
- Harmonic analysis from 1st to 30th order with GENNECT Cross^(**)

^{*} When using the optional DC High Voltage Probe P2000. The clamp meter itself is capable of measuring up to 1000 V DC.

^{**} Wireless Adapter Z3210 is necessary.

Model No. (Order Code) **CM4373-50** (Wireless Adapter Z3210 not included)
CM4373-90 (Bundled with the Wireless Adapter Z3210)
CM4373-91 (Bundled with the DC High Voltage Probe P2000)
CM4373-92 (Bundled with DC HIGH VOLTAGE PROBE P2000 and Wireless Adapter Z3210)

Shared options for CM4141-50, CM4371-50, CM4373-50 and CM4375-50

Basic specifications (Accuracy guaranteed for 1 year)

DC Current range	600.0 A/2000 A, Basic accuracy: ±1.3% rdg. ±0.3 A (600 A range)
AC Current range	600.0 A/2000 A (10 Hz to 1 kHz, True RMS), Basic accuracy 45 - 66 Hz: ±1.3% rdg. ±0.3 A (at 600 A)
Crest factor	600.0 A range: 3 or less, 2000 A range: 2.84 or less
DC+AC Current range	600.0 A/2000 A (10 Hz to 1 kHz, True RMS), Basic accuracy DC, 45-66 Hz: ±1.3% rdg. ±1.3 A (at 600 A)
DC Voltage range	600.0 mV to 1000 V (When using P2000: 600.0 V to 2000 V)
AC Voltage range	6.000 V to 1000 V, 4 ranges (15 Hz to 1 kHz, True RMS), Basic accuracy 45 - 66 Hz: ±0.9% rdg. ±0.003 V (at 6 V)
DC+AC Voltage range	6.000 V to 1000 V, 4 ranges, Basic accuracy DC, 45 - 66 Hz: ±1.0% rdg. ±0.013 V (at 6 V)
Resistance range	600.0 Ω to 6.000 MΩ, 5 ranges, Basic accuracy: ±0.7% rdg. ±0.5 Ω (at 600 Ω)
Capacitance range	1.000 μF to 1000 μF, 4 ranges, Basic accuracy: ±1.9% rdg. ±0.005 μF (at 1 μF)
Frequency range	9.999 Hz to 999.9 Hz, 3 ranges, Basic accuracy: ±0.1% rdg. ±0.003 Hz (at 9.999 Hz)
Temperature (K)	-40.0 to 400.0 °C, add temperature probe accuracy to basic accuracy of ±0.5% rdg. ±3.0 °C
Voltage detection	Hi: 40 V to 600 V AC, Lo: 80 V to 600 V AC, 50/60 Hz
Other functions	DC power, Continuity check, Diode check, Automatic AC/DC detection, Pass/fail judgement function of DC A and DC V, Max/Min/Average/PEAK MAX/PEAK MIN value display, Low-pass filter function, Display value hold, Auto hold, Back light, Auto-power save, Buzzer sounds, Zero-adjustment, etc.
Dustproof, waterproof	IP20 (Voltage measurement in a completely dry condition. When jaw closes) IP54 (While in storage)
Power supply	LR03 Alkaline battery ×2 Continuous use: 40 hr (without Z3210 installed), 24 hr. (with Z3210 installed and using wireless communications) Other conditions: 100 A AC measurement, backlight off, 23°C reference value
Core jaw diameter	φ55 mm (2.17 in), Jaw dimension: 92 mm (3.62 in) W×18 mm (0.71 in) D
Dimensions and mass	65 mm (2.56 in) W×250 mm (9.84 in) H×35 mm (1.38 in) D mm, 530 g (18.7 oz)
Included accessories	Test Lead L9300, Carrying Case C0203, LR03 Alkaline battery ×2, Instruction Manual×2, Operating Precautions ×1

Field
Measuring
Instruments

Clamp Meters

True RMS 600 A AC/DC Clamp Meter for the Toughest Situations With DMM Functions that Deliver Top Safety

AC/DC CLAMP METER CM4371-50



CAT IV 600 V
CAT III 1000 V

When using P2000:
CAT IV 1000 V
CAT III 2000 V



True RMS



When Z3210 is installed



- Automatic AC/DC function helps boost work efficiency
- Measure DC voltages of up to 2000 V (*) for open voltage inspections of solar panels
- Simultaneously measure inrush current in RMS and crest values
- Easily transfer measurement data to your smartphone or tablet by using our free app GENNECT Cross or to an Excel® file (**)
- Harmonic analysis from 1st to 30th order with GENNECT Cross (**)

*1 When using the optional DC High Voltage Probe P2000. The clamp meter itself is capable of measuring up to 1000 V DC.

**2 Wireless Adapter Z3210 is necessary.

Model No. (Order Code) **CM4371-50** (Wireless Adapter Z3210 not included)
CM4371-90 (Bundled with the Wireless Adapter Z3210)

Basic specifications (Accuracy guaranteed for 1 year)

DC Current range	20.00 A/600.0 A, Basic accuracy: $\pm 1.3\%$ rdg ± 0.08 A (20 A range)
AC Current range	20.00 A/600.0 A (10 Hz to 1 kHz, True RMS), Basic accuracy: $\pm 1.3\%$ rdg ± 0.08 A (at 20 A)
Crest factor	20.00 A range: 7.5, 600.0 A range: 3 or less
DC+AC Current range	20.00 A/600.0 A (10 Hz to 1 kHz, True RMS), Basic accuracy DC, 45-66 Hz: $\pm 1.3\%$ rdg ± 0.13 A (at 20 A)
DC Voltage range	600.0 mV to 1000 V (When using P2000: 600.0 V to 2000 V)
AC Voltage range	6.000 V to 1000 V, 4 ranges (15 Hz to 1 kHz, True RMS), Basic accuracy 45 - 66 Hz: $\pm 0.9\%$ rdg ± 0.003 V (at 6 V)
DC+AC Voltage range	6.000 V to 1000 V, 4 ranges, Basic accuracy DC, 45 - 66 Hz: $\pm 1.0\%$ rdg ± 0.013 V (at 6 V)
Resistance range	600.0 Ω to 6.000 M Ω , 5 ranges, Basic accuracy: $\pm 0.7\%$ rdg ± 0.5 Ω (at 600 Ω)
Capacitance range	1.000 μ F to 1000 μ F, 4 ranges, Basic accuracy: $\pm 1.9\%$ rdg ± 0.005 μ F (at 1 μ F)
Frequency range	9.999 Hz to 999.9 Hz, 3 ranges, Basic accuracy: $\pm 0.1\%$ rdg ± 0.003 Hz (at 9.999 Hz)
Temperature (K)	-40.0 to 400.0 °C, add temperature probe accuracy to basic accuracy of $\pm 0.5\%$ rdg ± 3.0 °C
Voltage detection	Hi: 40 V to 600 V AC, Lo: 80 V to 600 V AC, 50/60 Hz
Other functions	DC power, Continuity check, Diode check, Automatic AC/DC detection, Pass/fail judgement function of DC A and DC V, Max/Min/Average/PEAK MAX/PEAK MIN value display, Low-pass filter function, Display value hold, Auto hold, Back light, Auto-power save, Buzzer sounds, Zero-adjustment
Dustproof, waterproof	IP20 (Voltage measurement in a completely dry condition. When jaw closes) IP54 (While in storage)
Power supply	LR03 Alkaline battery $\times 2$ Continuous use: 40 hr (without Z3210 installed), 20 hr. (with Z3210 installed and using wireless communications) Other conditions: 10 A AC measurement, backlight off, 23°C reference value
Core jaw diameter	$\phi 33$ mm (1.30 in), Jaw dimension: 69 mm (2.72 in) W \times 14 mm (0.55 in) D
Dimensions and mass	65 mm (2.56 in) W \times 215 mm (8.46 in) H \times 35 mm (1.38 in) D mm, 340 g (12.0 oz)
Included accessories	Test Lead L9300, Carrying Case C0203, LR03 Alkaline battery $\times 2$, Instruction Manual $\times 2$, Operating Precautions $\times 1$

Shared options for CM4141-50, CM4371-50, CM4373-50 and CM4375-50

<p>L9207-10 is bundled</p> <p>TEST LEAD L9207-10 90 cm (2.95 ft) length</p> <p>TEST LEAD L9300 95 cm (37.4 in.), Integrated cap and protective finger guard</p>	<p>Attach L9207-10 with the cap removed. Slide the guard of L9300 and attach as measurement category II.</p> <p>CONTACT PIN SET L4933 Attaches to the tip of the Test Lead L9207-10/ L9300/ DT4911/ L9206, 60V DC/ 30V AC</p> <p>SMALL ALLIGATOR CLIP SET L4934 Attaches to the tip of the L4932/ L9207-10/ L9300/ DT4911/ L9206, CAT III 300V, CAT II 600V</p>	<p>L4943 is bundled with P2000</p> <p>DC HIGH VOLTAGE PROBE P2000 CAT III 2000 V</p> <p>CONNECTION CABLE SET L4943 Bundled with P2000, Cable length: 65 mm (2.56 in.)</p>	<p>Temperature measurement</p> <p>THERMOCOUPLES(K) DT4910 K type, tip exposed, 0.5 mm (0.02 in) diameter, 80 cm (2.62 ft) length, -40 to 260 °C (-40 to 500 °F)</p>	<p>Bundled accessory</p> <p>CARRYING CASE C0203</p>						
<p>Options for the L4930, Test Pin Set L4932 is required when using the Small Alligator Clip Set L4934</p>										
<p>CONNECTION CABLE SET L4930</p> <p>1.2 m (3.94 ft) length, CAT IV 600V, CAT III 1000V</p>	<p>EXTENSION CABLE SET L4931</p> <p>Expands the length of the L4930/L4940, 1.5 m (4.92 ft) length</p>	<p>TEST PIN SET L4932</p> <p>Attaches to the tip of the L4930/L4940, CAT IV 600V, CAT III 1000V</p>	<p>SMALL ALLIGATOR CLIP SET L4934</p> <p>Attaches to the tip of the L4932, L9207-10/DT4911, L9206, CAT III 300V, CAT II 600V</p>	<p>ALLIGATOR CLIP SET L4935</p> <p>Attaches to the tip of the L4930/L4940, CAT IV 600V, CAT III 1000V</p>	<p>BUS BAR CLIP SET L4936</p> <p>Attaches to the tip of the L4930/L4940, CAT III 600V</p>	<p>MAGNETIC ADAPTER SET L4937</p> <p>Attaches to the tip of the L4930/L4940, CAT III 1000V</p>	<p>MAGNETIC ADAPTER 9804</p> <p>Attaches to the tip of voltage cord, $\phi 11$ mm (0.43 in), compatible M6 pan screws</p>	<p>TEST PIN SET L4938</p> <p>Attaches to the tip of the L4930/L4940, CAT III 600V</p>	<p>BREAKER PIN SET L4939</p> <p>Attaches to the tip of the L4930/L4940, CAT III 600V</p>	<p>GRABBER CLIP L9243</p> <p>Attaches to the tip of the L4930/L4940, CAT II 1000 V, 185 mm (7.28 in) length</p>

Compact & Easy, One-Touch Maintenance on All Types of AC/DC Equipment

CLAMP ON AC/DC HITESTER 3288



3288



3288-20



CAT III 600 V (Current)
CAT III 300 V (Voltage)



True RMS

- Model 3288-20: True RMS
- Use the 3288 for high current measurements such as UPS emergency batteries and train motors
- Voltage, resistance, and continuity check functions

Model No. (Order Code) **3288** (Average rectified)
3288-20 (True RMS)

Basic specifications (Accuracy guaranteed for 1 year)

	3288	3288-20
DC Current range	100.0/ 1000 A, Basic accuracy: $\pm 1.5\%$ rdg ± 5 dgt	
AC Current range	100.0/ 1000 A, (10 Hz to 500 Hz, Average rectified), Basic accuracy: $\pm 1.5\%$ rdg ± 5 dgt	100.0/ 1000 A, (10 Hz to 500 Hz, True RMS), Basic accuracy: $\pm 1.5\%$ rdg ± 5 dgt
DC Voltage range	419.9 mV to 600 V, 5 ranges, Basic accuracy: $\pm 1.3\%$ rdg ± 4 dgt	
AC Voltage range	4.199 V to 600 V, 4 ranges, Basic accuracy: $\pm 2.3\%$ rdg ± 8 dgt (30 to 500 Hz, Average rectified)	4.199 V to 600 V, 4 ranges, Basic accuracy: $\pm 2.3\%$ rdg ± 8 dgt (30 to 500 Hz, True RMS)
Resistance range	419.9 Ω to 41.99 M Ω , 6 ranges, Basic accuracy: $\pm 2\%$ rdg ± 4 dgt	
Crest factor	N/A	3 or less (2 at 1000 A range, 1.5 at Voltage)
Other functions	Continuity: (50 Ω ± 40 Ω) or less buzzer sounds, Data hold, Auto power save, Auto zero (DC A)	
Display	LCD, max. 4199 dgt, Display refresh rate: 2.5 times/s	
Power supply	Coin type lithium battery (CR2032) $\times 1$, Continuous use 60 hours	Coin type lithium battery (CR2032) $\times 1$, Continuous use 35 hours
Core jaw dia.	$\phi 35$ mm (1.38 in)	
Dimensions and mass	57 mm (2.24 in) W \times 180 mm (7.09 in) H \times 16 mm (0.63 in) D, 150 g (5.3 oz)	
Included accessories	Coin type lithium battery (CR2032) $\times 1$, Carrying case 9398 $\times 1$, Test lead L9208 $\times 1$, Instruction manual $\times 1$	

Bundled Accessories



CARRYING CASE 9398



TEST LEAD L9208
70 cm (2.30 ft) length

Option



TEST LEADS HOLDER 9209
Secures one end of each test lead to the rear of the meter

Clamp Meters

Compact & Easy, One-Touch Maintenance on All Types of AC/DC Equipment

CLAMP ON AC/DC HiTESTER 3287



- Accurately measure even small currents with 10 A range
- Voltage, resistance, and continuity check functions

Basic specifications (Accuracy guaranteed for 1 year)

DC Current range	10.00/ 100.0 A, Basic accuracy: $\pm 1.5\%$ rdg ± 5 dgt
AC Current range	10.00/ 100.0 A (10 Hz to 1 kHz, True RMS) Basic accuracy: $\pm 1.5\%$ rdg ± 5 dgt
DC Voltage range	419.9 mV to 600 V, 5 ranges, Basic accuracy: $\pm 1.3\%$ rdg ± 4 dgt
AC Voltage range	4.199 V to 600 V, 4 ranges (30 to 500 Hz, True RMS) Basic accuracy: $\pm 2.3\%$ rdg ± 8 dgt
Resistance range	419.9 Ω to 41.99 M Ω , 6 ranges, Basic accuracy: $\pm 2\%$ rdg ± 4 dgt
Crest factor	2.5 or less (150 A, 1000 V max.)
Other functions	Continuity: (50 Ω \pm 40 Ω) or less buzzer sounds, Data hold, Auto power save, Auto zero (DC A)
Display	LCD, max. 4199 dgt, Display refresh rate: 2.5 times/s
Power supply	Coin type lithium battery (CR2032) \times 1, Continuous use 25 hours
Core jaw dia.	ϕ 35 mm (1.38 in)
Dimensions and mass	57 mm (2.24 in)W \times 180 mm (7.09 in)H \times 16 mm (0.63 in)D, 170 g (6.0 oz)
Included accessories	Coin type lithium battery (CR2032) \times 1, Carrying case 9398 \times 1, Test lead L9208 \times 1, Instruction manual \times 1

Model No. (Order Code) **3287** (True RMS)

Bundled Accessories		CARRYING CASE 9398
		TEST LEAD L9208 70 cm (2.30 ft) length
Option		TEST LEADS HOLDER 9209 Secures one end of each test lead to the rear of the meter

Clamp Meters

True RMS 2000 A AC Clamp Meter Innovative Current Sensor Design - Easily Get Into Tight Spaces

AC CLAMP METER CM4141-50



CE
CAT IV 600 V
CAT III 1000 V
When using P2000:
CAT IV 1000 V
CAT III 2000 V



True RMS



When Z3210 is installed



- Easily get into tight spaces between cables thanks to thin sensor with a minimum cross-section span of 11 mm
- Measure up to 2000 A AC
- Measure DC voltages of up to 2000 V^(*) for open voltage inspections of solar panels
- AC A, AC and DC V, DC+AC V, resistance, frequency, temperature, and more
- Easily transfer measurement data to your smartphone or tablet by using our free app GENNECT Cross or to an Excel® file^(**)
- Harmonic analysis from 1st to 30th order with GENNECT Cross^(**)

^{*} When using the optional DC High Voltage Probe P2000. The clamp meter itself is capable of measuring up to 1000 V DC.

^{**} Wireless Adapter Z3210 is necessary.

Model No. (Order Code) **CM4141-50** (Wireless Adapter Z3210 not included)
CM4141-90 (Bundled with the Wireless Adapter Z3210)

Shared options for CM4141-50, CM4371-50, CM4373-50 and CM4375-50

Basic specifications (Accuracy guaranteed for 1 year)

AC Current range	60.00 A to 2000 A, 3 ranges (45 Hz to 1 kHz, True RMS), Basic accuracy 45-66 Hz: $\pm 1.5\%$ rdg. ± 0.08 A (60 A range)
Crest factor	For the 60.00 A range: 2.5 (greater than 50.00 A and less than or equal to 60.00 A) to 2000 A range: 1.5 (2000 A or less)
DC Voltage range	600.0 mV to 1000 V (When using P2000: 600.0 V to 2000 V)
AC Voltage range	6.000 V to 1000 V, 4 ranges (15 Hz to 1 kHz, True RMS), Basic accuracy 45-66 Hz: $\pm 0.9\%$ rdg. 0.003 V (at 6 V)
DC+AC Voltage range	6.000 V to 1000 V, 4 ranges, Basic accuracy DC, 45-66 Hz: $\pm 1.0\%$ rdg. ± 0.013 V (at 6 V)
Resistance range	600.0 Ω to 6.000 M Ω , 5 ranges, Basic accuracy: $\pm 0.7\%$ rdg. ± 0.5 Ω (at 600 Ω)
Capacitance range	1.000 μ F to 1000 μ F, 4 ranges, Basic accuracy: $\pm 1.9\%$ rdg. ± 0.005 μ F (at 1 μ F)
Frequency range	Voltage: 9.999 Hz to 999.9 Hz 3 ranges, Current: 99.99 Hz to 999.9 Hz 2 ranges, Basic accuracy: $\pm 0.1\%$ rdg. ± 0.01 Hz (at 99.99 Hz)
Temperature (K)	-40.0 to 400.0 $^{\circ}$ C, Basic accuracy: $\pm 0.5\%$ rdg ± 3.0 $^{\circ}$ C + temperature probe accuracy
Other functions	Continuity check, Diode check, Automatic AC/DC detection (Voltage check only), Max/Min/AVG/Peak waveform MAX/Peak waveform MIN value display, Low-pass filter function, Display value hold, Backlight, Auto power save, Buzzer sound, Zero-adjustment, and other function
Dustproof, water-proof	IP20 (current measurement of voltage or hazardous live conductors under completely dry condition. Do not use when wet.) IP50 (when measuring resistance, or current of an insulated conductor (completely dry), and in storage)
Power supply	LR03 Alkaline battery $\times 2$ Continuous use: approx. 48 hr (without Z3210 installed), approx. 24 hr. (with Z3210 installed and using wireless communications) Other conditions: 100 A AC measurement, backlight off, 23 $^{\circ}$ C reference value
Core jaw diameter	$\phi 55$ mm (2.17 in), Jaw dimension: 82 mm (3.23 in) W \times 11 mm (0.43 in) D (D dimension is a range value of 44 mm (1.73 in) from the tip of the jaw)
Smallest dimension of jaw cross-section	11 mm (0.43 in) (Range value of 44 mm (1.73 in) from the tip of the jaw)
Dimensions and mass	65 mm (2.56 in) W \times 247 mm (9.72 in) H \times 35 mm (1.38 in) D, 300 g (10.6 oz)
Included accessories	Test Lead L9300 $\times 1$, Carrying Case C0203 $\times 1$, LR03 Alkaline battery $\times 2$, Instruction Manual $\times 2$, Operating Precautions $\times 1$

Rugged & Compact, Quickly clamp wires in even more confined spaces!

AC CLAMP METER 3280-10F, CM3289



3280-10F



CM3289

CE
CAT IV 300 V (Current)
CAT III 600 V (Current)
CAT III 300 V (Voltage)



True RMS

- The CM3289 is the successor to the popular 3280-20F with a redesigned thinner sensor to help you get into the tightest spaces.
- New redesigned sensor for even easier clamping (CM3289)
- Expanded -25 $^{\circ}$ C to 65 $^{\circ}$ C operating temperature range
- Model CM3289: Measure even harmonic waveform components using the True RMS method
- Model 3280-10F: Measure the fundamental waveform component using the average rectified method
- Connect the CT6280 flexible sensor to measure up to 4199 A in thick or paired wires

Model No. (Order Code) **3280-10F** (Average rectified)
3280-70F (3280-10F, CT6280 bundled model)
CM3289 (True RMS)

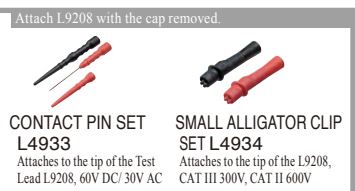
Note: The 3280-70F includes both the meter and an AC Flexible Current Sensor.
1: AC CLAMP METER 3280-10F $\times 1$
2: AC FLEXIBLE CURRENT SENSOR CT6280 $\times 1$ 3: CARRYING CASE C0205 $\times 1$

Basic specifications (Accuracy guaranteed for 1 year)

	3280-10F	CM3289
AC Current range	42.00 to 1000 A, 3 ranges (50 to 60 Hz, Average rectified), Basic accuracy: $\pm 1.5\%$ rdg ± 5 dgt	42.00 to 1000 A, 3 ranges (40 Hz to 1 kHz, True RMS), Basic accuracy: $\pm 1.5\%$ rdg ± 5 dgt
DC Voltage range	420.0 mV to 600 V, 5 ranges, Basic accuracy: $\pm 1.0\%$ rdg ± 3 dgt	
AC Voltage range	4.200 V to 600 V, 4 ranges (45 to 500 Hz, Average rectified), Basic accuracy: $\pm 1.8\%$ rdg ± 7 dgt	4.200 V to 600 V, 4 ranges (45 to 500 Hz, True RMS), Basic accuracy: $\pm 1.8\%$ rdg ± 7 dgt
Crest factor	N/A	2.5 or less at 2500 counts (Linearly decreases to 1.5 or less at 4200 count)
Resistance range	420.0 Ω to 42.00 M Ω , 6 ranges, Basic accuracy: $\pm 2\%$ rdg ± 4 dgt	
Other functions	Continuity: Buzzer sounds at 50 Ω ± 40 Ω or less, Data hold, Auto power save, Drop-proof from height of 1 meter	
Display	LCD, max. 4199 dgt, Display refresh rate: 400 ms	
Power supply	Coin type lithium battery (CR2032) $\times 1$, Continuous use 120 hours	Coin type lithium battery (CR2032) $\times 1$, Continuous use 70 hours
Core jaw dia.	$\phi 33$ mm (1.30 in)	
Dimensions and mass	57 mm (2.24 in) W \times 175 mm (6.89 in) H \times 16 mm (0.63 in) D, 100 g (3.5 oz)	57 mm (2.24 in) W \times 181 mm (7.13 in) H \times 16 mm (0.63 in) D, 100 g (3.5 oz)
Included accessories	CARRYING CASE 9398 $\times 1$, TEST LEAD L9208 $\times 1$, Coin type lithium battery (CR2032) $\times 1$, Instruction manual $\times 1$	

CT6280 Basic specifications (Accuracy guaranteed for 1 year)

Core jaw dia.	$\phi 130$ mm (5.12 in) Cable cross-section diameter: 5 mm (0.20 in), tip cap diameter: 7 mm (0.28 in)
AC Current	419.9 A/ 4199 A, 2 ranges ($\pm 3.0\%$ rdg ± 5 dgt)
Cable length	800 mm (31.5 in)



Clamp Meters

Large Jaw Lets You Clamp with Ease, Measure Thick Cables Right at the Terminal

AC CLAMP METER CM3281, CM3291



- AC only, measure up to 2000 AAC
- -25 °C to 65 °C operating temperature range
- Also measure resistance, continuity, AC and DC voltage

Model No. (Order Code) **CM3281** (Average rectified)
CM3291 (True RMS)

■ Basic specifications (Accuracy guaranteed for 1 year)

	CM3281	CM3291
AC Current range	42.00 to 2000 A, 3 ranges (50 Hz to 60 Hz, Average rectified), Basic accuracy 50-60 Hz: $\pm 1.5\%$ rdg ± 5 dgt	42.00 to 2000 A, 3 ranges (40 Hz to 1 kHz, True RMS), Basic accuracy 45-66 Hz: $\pm 1.5\%$ rdg ± 5 dgt
DC Voltage range	420.0 mV to 600 V, 5 ranges, Basic accuracy: $\pm 1.0\%$ rdg ± 3 dgt (at 4.2 V range)	420.0 mV to 600 V, 4 ranges (45 to 500 Hz, Average rectified), Basic accuracy 45-66 Hz: $\pm 1.8\%$ rdg ± 7 dgt (at 4.2 V range)
AC Voltage range	4.200 V to 600 V, 4 ranges (45 to 500 Hz, Average rectified), Basic accuracy 45-66 Hz: $\pm 1.8\%$ rdg ± 7 dgt (at 4.2 V range)	4.200 V to 600 V, 4 ranges (45 to 500 Hz, True RMS), Basic accuracy 45-66 Hz: $\pm 1.8\%$ rdg ± 7 dgt (at 4.2 V range)
Crest factor	N/A	For 2500 counts or less, 2.5 Reduces linearly to 1.5 or less at 4200 counts But, 1.5 or less for 2000 A ACA range
Resistance range	420.0 Ω to 42.00 M Ω , 6 ranges, Basic accuracy: $\pm 2.0\%$ rdg ± 4 dgt (at 420 Ω range)	
Other functions	Continuity check: Buzzer sounds at 50 Ω ± 40 Ω or less, Data hold, Auto power save, Drop-proof from height of 1 meter	
Power supply	Coin type lithium battery (CR2032) $\times 1$, Continuous use 120 hours	Coin type lithium battery (CR2032) $\times 1$, Continuous use 70 hours
Core jaw diameter	ϕ 46 mm (1.81 in), Jaw dimension: 65 mm (2.56 in) W \times 13 mm (0.51 in) D	
Dimensions and mass	57 mm (2.24 in) W \times 198 mm (7.80 in) H \times 16 mm (0.63 in) D, 103 g (3.6 oz)	
Included accessories	Carrying case $\times 1$, TEST LEAD L9208 $\times 1$, Coin type lithium battery CR2032 (for trial purposes only) $\times 1$, Instruction manual $\times 1$, Download guide $\times 1$, Operating precautions $\times 1$	

■ CT6280 Basic specifications (Accuracy guaranteed for 1 year)

Core jaw dia.	ϕ 130 mm (5.12 in) (Cable cross-section diameter: 5 mm (0.20 in); tip cap diameter: 7 mm (0.28 in))
AC Current	419.9 A / 4199 A, 2 ranges ($\pm 3.0\%$ rdg ± 5 dgt)
Cable length	800 mm (31.5 in)

Shared options for the CM3281, CM3291

Bundled Accessories			Options			
	TEST LEAD L9208 70 cm (2.30 ft) length	Carrying case C0205 Hard type, 222 mm (8.74 in)W \times 115 mm (4.53 in)H \times 46 mm (1.81 in)D		AC FLEXIBLE CURRENT SENSOR CT6280 Includes carrying case C0205	CONTACT PIN SET L4933 Attaches to the tip of the Test Lead L9208, 60V DC/30V AC	SMALL ALLIGATOR CLIP SET L4934 Attaches to the tip of the L9208, CAT III 300V, CAT II 600V

For large diameter and large current measurement in combination with AC clamp meter

AC FLEXIBLE CURRENT SENSOR CT6280



- Large-diameter loop is ideal for measuring large wires and pairs of wires.
- In small spaces
- Freely bendable

Model No. (Order Code) **CT6280** (For the CM3291/89, 3280-10F and similar products)

■ CT6280 Basic specifications (Accuracy guaranteed for 1 year)

Maximum input current	4200 A AC, continuous (50 Hz to 60 Hz)
Core jaw dia.	ϕ 130 mm (5.12 in) (Cross-section diameter of sensor cable: ϕ 5 mm (0.20 in); Sensor-tip cap diameter: ϕ 7 mm (0.28 in))
Dimensions and mass	42 mm (1.65 in) W \times 65 mm (2.56 in) H \times 18 mm (0.71 in) D (excluding the flexible loop and output cable), 71 g (2.5 oz)
Cable length	800 mm (31.5 in)
Included accessory	Carrying case C0205 $\times 1$

Note: CT6280 is a flexible current sensor for measuring large currents. It is not suitable for measuring minute current such as leakage current.



Bundled Accessories

CARRYING CASE C0205
Soft case

Essential equipment for professional electricians (AC FLEXIBLE CURRENT SENSOR CT6280/option)

Thin and strong clamp meter

AC FLEXIBLE CURRENT SENSOR
 ϕ 130 mm (5.12")
4200 A AC

Use with an AC Clamp Meter to measure large wires and currents.

Large diameter loop is ideal for measuring large wires and pairs of wires.

In small spaces

Tip is fixed in an L-shape for easy manipulation in confined spaces

Note: CT6280 is a flexible current sensor for measuring large currents. It is not suitable for measuring minute current such as leakage current.

Freely bendable

CARRYING CASE C0205

Clamp Meters/Leak Current

Leakage Current Meter with Remarkable Ease of Use. Double Your Work Speed with Innovative Jaw Design.

AC LEAKAGE CLAMP METER CM4001



Slim jaws,
Core jaw diameter: $\phi 24$ mm



When Z3210 is installed



Germany iF Design Award

- Slim jaws let you work with ease
- Measure everything from leakage to load
- Identify intermittent GFCI and RCD trips to prevent unplanned equipment downtime by testing for earth leakage current
- Find issues faster with comparator function
- Wireless support. Transfers measurements to your smartphone or tablet and allows you to quickly create reports with field photos and drawings. (Optional Wireless Adapter Z3210 is necessary)

Model No. (Order Code) **CM4001** (Wireless Adapter Z3210 not included)
CM4001-90 (Bundled with the Wireless Adapter Z3210)

Basic specifications (Accuracy guaranteed for 1 year)

AC Current range	60.00 mA / 600.0 mA / 6.000 A / 60.00 A / 600.0 A, 5 ranges (40 Hz to 1 kHz, True RMS) Basic accuracy (45-66 Hz): $\pm 1.5\%$ rdg ± 5 dgt (60.00 mA to 6.000 A), $\pm 2.5\%$ rdg ± 5 dgt (60.00 A to 600.0 A) Guaranteed accuracy: from 0.60 mA to 600.0A
AC Voltage range	N/A
Frequency range	40.0 Hz to 999.9 Hz
Crest factor	4.5 (4000 counts or less) 3 (more than 4000 counts, 6000 counts or less)
Filter function	Cut off frequency: 180 Hz ± 30 Hz at filter ON (-3 dB)
Output function	N/A
Other functions	Comparator function, record Max/Min/Avg value, backlight, data hold, auto power off, AC inrush function
Display	Display refresh rate: 5 times/s
Power supply	LR03 alkaline battery $\times 1$; 32 hours of continuous use
Core jaw diameter	$\phi 24$ mm (0.94 in)
Dimensions and mass	37 mm (1.46 in) W \times 160 mm (6.30 in) H \times 27 mm (1.06 in) D, 115 g (4.1 oz.)
Included accessories	Carrying case $\times 1$, Strap $\times 1$, Instruction manual $\times 1$, Operating Precautions $\times 1$, LR03 alkaline battery $\times 1$



Prevent unexpected downtime! Identify potential problems and avoid large problems

AC LEAKAGE CLAMP METER CM4002, CM4003



CM4002

CM4003



CAT IV 300 V
CAT III 600 V (CM4002)
CAT III 300 V (CM4003)



When Z3210 is installed



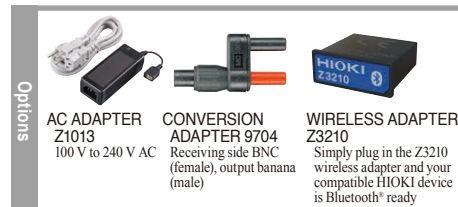
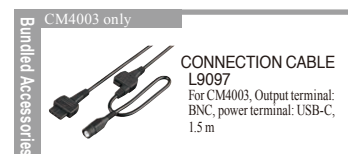
Germany iF Design Award

- Easily transfer measurement data to your smartphone or tablet by using our free app GENNECT Cross or to an Excel® file. (Wireless Adapter Z3210 is necessary)
- Detect minuscule leakage currents with a newly designed sensor. (Core jaw diameter up to $\phi 40$ mm)
- Broad measurement range extending from leakage currents to load currents
- Complies with the performance standard set forth in IEC/EN 61557-13, an international standard on leak clamp meters
- Solve GFCI and RCD problems quickly
- Speed up pass/fail judgments with the built-in comparator function
- Output function (waveform/RMS): use with a recorder to record waveforms and fluctuations (CM4003 only)
- External power supply: use an optional AC adapter for continuous, long-term measurement (CM4003 only)

Model No. (Order Code) **CM4002** (Wireless Adapter Z3210 not included)
CM4002-90 (Bundled with the Wireless Adapter Z3210)
CM4003 (Wireless Adapter Z3210 not included)
CM4003-90 (Bundled with the Wireless Adapter Z3210)

Basic specifications (Accuracy guaranteed for 1 year)

	CM4002	CM4003
AC Current range	6.000 mA, 60.00 mA, 600.0 mA, 6.000 A, 60.00 A, 200.0 A, 6 ranges, True RMS Basic accuracy 45 Hz - 400 Hz: $\pm 1.0\%$ rdg ± 5 dgt (6.000 mA to 6.000 A), $\pm 1.5\%$ rdg ± 5 dgt (60.00 A, 200.0 A) Basic accuracy 15 Hz - 45 Hz, 400 Hz - 2 kHz: $\pm 2.0\%$ rdg ± 5 dgt Defined accuracy range: 0.060 mA to 200.0 A	
AC Voltage range	N/A	
Frequency range	15.0 Hz to 2000 Hz	
Crest factor	3 (other than 200.0 A range), 1.5 (200.0 A range)	
Filter function	Cut off frequency: 180 Hz ± 30 Hz at filter ON (-3 dB)	
Output function	N/A	RMS (RMS value output), WAVE (waveform output)
Other functions	Max/Min/AVG/PEAK MAX/PEAK MIN value display, Display value hold and auto hold; Backlight, Auto power save, Buzzer sound, Event count display, Comparator, Simple event recording, Rush current measurement	
Display	Display refresh rate: 5 times/s	
Power supply	AA-size alkaline battery (LR6) $\times 2$; Continuous operating time: 48 hr. (without Z3210 installed), 30 hr. (with Z3210 installed and using wireless communications)	
Core jaw diameter	$\phi 40$ mm (1.57 in.)	
Dimensions and mass	64 mm (2.52 in) W \times 233 mm (9.17 in) H \times 37 mm (1.46 in) D, 400 g (14.1 oz.)	
Included accessories	Carrying case C0203 $\times 1$, Instruction manual $\times 1$, Operating Precautions $\times 1$, AA-size alkaline battery (LR6) $\times 2$	



Easy Pole Clamp-On Ground Resistance Tester with Super Slim Jaw

CLAMP ON EARTH TESTER FT6380-50



CAT IV 600 V



3 Year Warranty



When Z3210 is installed

- Easily transfer measurement data to your smartphone or tablet by using our free app GENNECT Cross or to an Excel® file. (Wireless Adapter Z3210 is necessary)
- Earth resistance measurement for multi-grounded systems
- Measure leak current with absolute certainty with highly sensitive 0.01 mA resolution (at 20.00 mA range)
- Measure load current up to 60.0 A range
- Clamp at the narrowest point

Model No. (Order Code) **FT6380-50** (Wireless Adapter Z3210 not included)
FT6380-90 (Bundled with the Wireless Adapter Z3210)

Basic specifications (Accuracy guaranteed for 1 year)

Measurement principle	Instrument has two cores for voltage injection and current measurement. From the defined voltage and measured current, the total circuit loop resistance is calculated Note: For multi grounded systems only. In a multi-grounded system, the larger the number of grounding poles, the more accurate the measured value.
Earthing resistance range	0.20 Ω (0.01 Ω resolution) to 1600 Ω (20 Ω resolution), 10 ranges, Zero suppression: Less than 0.02 Ω, Accuracy: ±1.5 % rdg. ±0.02 Ω
AC Current range	20.00 mA (0.01 mA resolution) to 60.0 A (0.1 A resolution), 5 ranges, Zero suppression: Less than 0.05 mA, Accuracy: ±2.0 % rdg. ±0.05 mA (30 Hz to 400 Hz, True RMS), Crest factor 5.0 or less (for the 60 A range, 1.7 or less)
Maximum input current (Current measurement)	100 A AC continuous, AC 200 A for 2 minutes or shorter (at 50 Hz/60 Hz, requires derating at frequency)
Maximum rated terminal-to-ground voltage	600 VAC measurement category IV (anticipated transient overvoltage 8000 V)
Memory function	2000 data
Alarm function	For resistance measurement and current measurement, Beeps when measured value is less than or greater than threshold.
Other functions	Data hold, Backlight, Filter, Auto power save, Wireless communication (without Z3210 installed)
Display	LCD, Max. 2,000 count Display refresh rate: Approx. 2 times/sec.
Dust-proof and waterproof	IP40 (EN60529) With Jaws Closed
Power supply	LR6 alkaline battery × 2
Continuous operating time	Approx. 40 hours (25 Ω measurement, backlight off, without Z3210 installed) Approx. 35 hours (25 Ω measurement, backlight off, with Z3210 installed and using wireless communications)
Maximum measurable conductor diameter	φ 32 mm (1.26 in)
Dimensions and mass	73 mm (2.87 in) W × 218 mm (8.58 in) H × 43 mm (1.69 in) D, 620 g (21.9 oz)
Included accessories	Carrying case, Resistance check loop (1 Ω±2%, 25Ω±1%), Strap, LR6 alkaline battery × 2, Instruction manual



Bundled Accessories



Option

WIRELESS ADAPTER Z3210

Simply plug in the Z3210 wireless adapter and your compatible HIOKI device is Bluetooth® ready



Software

GENNECT Cross SF4071, SF4072
Mobile app for iOS, Android